

CLAIMS

What is claimed is:

1. A communication connector structure embedded within a personal electronic device, comprising:
 - a communication port; and
 - a rigid first arm structure attached to the communication port, wherein the first arm structure has a hinge mechanism fixedly attached thereto that is adapted for attachment to a personal electronic device such that the communication connector structure is rotatably mounted to the personal electronic device, and having electrical connections to the communication port that provide communication between a device connected to the communication port and the personal electronic device attached to the hinge mechanism.
2. The connecting structure of claim 1, further comprising a rigid second arm structure attached between the communication port and the first arm structure, wherein the communication port is attached to one end of the second arm structure and the first arm structure is rotatably connected to another end of the second arm structure.
3. The communication connector according to claim 2, wherein the second arm structure swivels about an axis running through the center of the longest dimension of the first arm structure.
4. The communication connector according to claim 1, wherein the communication port is a USB port.
5. The communication connector according to claim 1, wherein the communication port is a FireWire port.

6. A personal electronic device having an embedded communication connector, comprising:

a body;

a communication connector structure, comprising:

a communication port; and

a rigid first arm structure attached to the communication port, wherein the first arm structure has a hinge mechanism fixedly attached thereto and attached to the body such that the communication connector structure is rotatably mounted to the personal electronic device, and having electrical connections to the communication port that provide communication between a device connected to the communication port and the personal electronic device attached to the hinge mechanism;

an inset region within the body, inset from the surface of the body, adapted to permit the communication connector structure to occupy the space within the inset region, and wherein the hinge mechanism is positioned on the rigid first arm structure and attached to the body such that the communication connector structure occupies the inset region when rotated in a first position and extends outside the inset region when rotated in a second position.

7. The personal electronic device according to claim 6, wherein the communication connector structure is rotatably mounted to the personal electronic device by the hinge mechanism such that the communication connector structure is in a embedded position when occupying the inset region of the personal electronic device, and is in an operational position for connection with a device when the communication connector structure is rotated about a hinged point in the hinge mechanism such that the communication connector structure is moved from the embedded position and the communication port is moved outside the inset region into a position for mating with another device.

8. The personal electronic device of claim 6, further comprising:

a rigid second arm structure attached between the communication port and the first arm structure, wherein the communication port is attached to one end of the second arm structure and the first arm structure is rotatably connected to another end of the second arm structure, wherein the second arm structure rotates about an axis running through the center of the longest dimension of the first arm.

9. The personal electronic device of claim 6, wherein the personal electronic device is a personal digital assistant device.

10. The personal electronic device of claim 6, wherein the personal electronic device is a cellular telephone.

11. The personal electronic device of claim 6, wherein the personal electronic device is a notebook computer.

12. The personal electronic device of claim 6, wherein the personal electronic device is a portable device adapted to be carried on the person of the user of the personal electronic device.

13. The communication connector according to claim 6, wherein the communication port is a USB port.

14. The communication connector according to claim 6, wherein the communication port is a FireWire port.